

Title (en)  
Improved surfacing alloy.

Title (de)  
Oberflächenlegierung.

Title (fr)  
Alliage pour couches superficielles.

Publication  
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Application  
**EP 91310324 A 19911107**

Priority  
US 65648191 A 19910215

Abstract (en)  
An improved nickel-boron-silicon surfacing alloy containing an effective amount of phosphorus. Alloys of the present invention comprise: from about 0.20% to about 2.0% boron; from about 1.0% to about 5.0% silicon; and from about 0.5% to about 4.5% phosphorus. Also disclosed is a method of manufacture of the alloy and a method for coating of a metal substrate with the surfacing alloy.

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Citation (search report)  
• [A] US 2880086 A 19590331 - CAPE ARTHUR T  
• [A] US 4379121 A 19830405 - MCMURRAY JOHN H, et al  
• [A] DE 864024 C 19530122 - SIXT BENNO DIPL-ING  
• [A] US 4623386 A 19861118 - HAEHN REINHARD [DE], et al

Cited by  
FR2700554A1; FR2698882A1; GB2279363A; GB2279363B; DE4396402B4; WO9413426A1

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